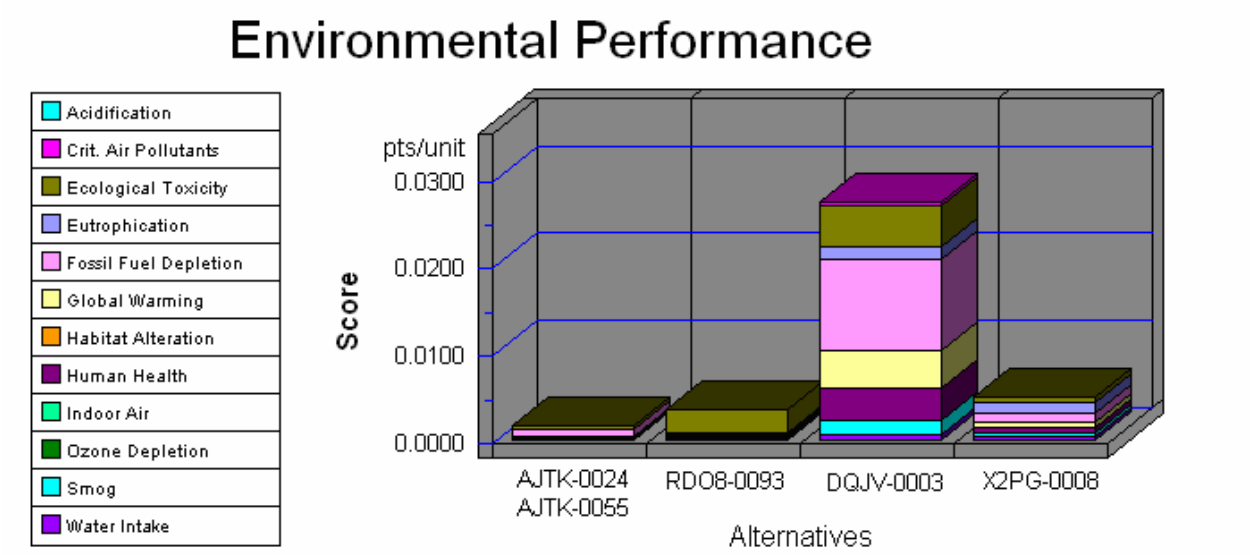
**Metalworking Fluids**

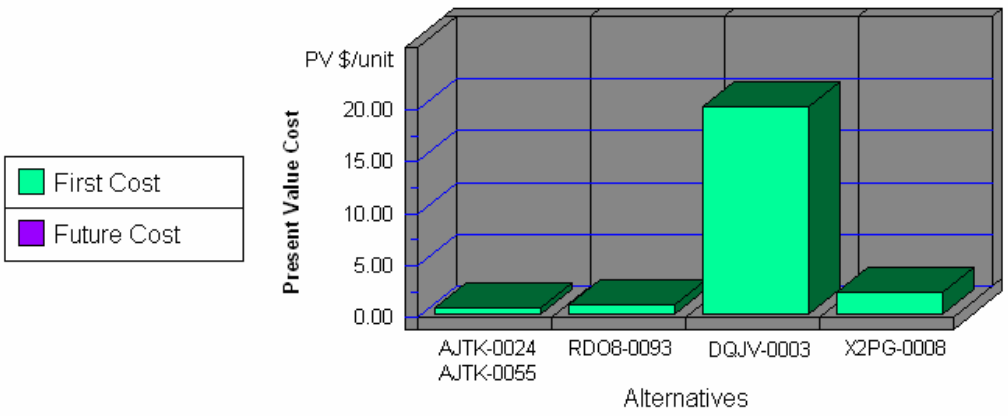
Units: One gallon (diluted and ready for use)




**Note: Lower values are better**

| Category | AJTK-0024 AJTK-0055 | RDO8-0093 | DQJV-0003 | X2PG-0008 |
|---|---|---|---|---|
| Acidification--5% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Crit. Air Pollutants--6% | 0.0000 | 0.0000 | 0.0003 | 0.0000 |
| Ecolog. Toxicity--11% | 0.0004 | 0.0026 | 0.0048 | 0.0007 |
| Eutrophication--5% | 0.0001 | 0.0001 | 0.0014 | 0.0012 |
| Fossil Fuel Depl.--5% | 0.0008 | 0.0002 | 0.0103 | 0.0010 |
| Global Warming--16% | 0.0002 | 0.0002 | 0.0044 | 0.0005 |
| Habitat Alteration--16% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Human Health--11% | 0.0002 | 0.0001 | 0.0037 | 0.0007 |
| Indoor Air--11% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Ozone Depletion--5% | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Smog--6% | 0.0001 | 0.0000 | 0.0016 | 0.0003 |
| Water Intake--3% | 0.0000 | 0.0004 | 0.0007 | 0.0006 |
| **Sum** | 0.0018 | 0.0036 | 0.0272 | 0.0050 |

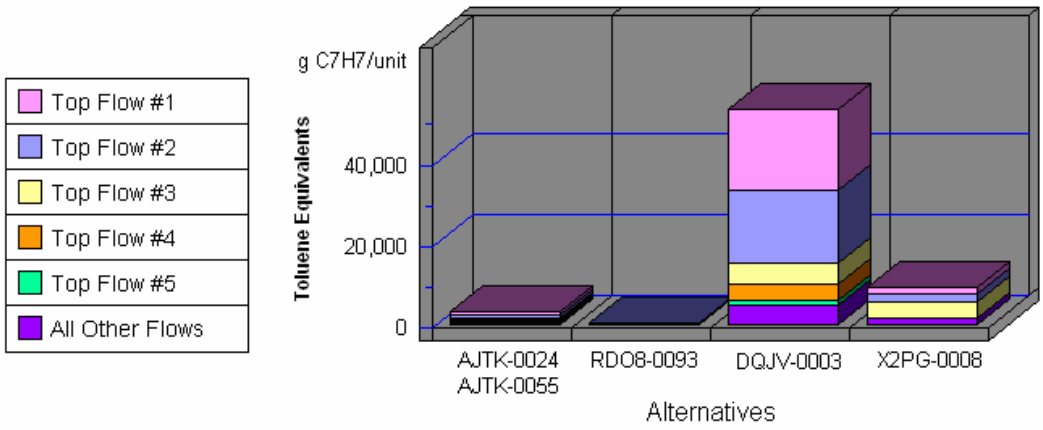
## Economic Performance




| Category | AJTK-0024 AJTK-0055 | RDO8-0093 | DQJV-0003 | X2PG-0008 |
|---|---|---|---|---|
| First Cost | 0.72 | 0.96 | 20.00 | 2.10 |
| Future Cost-- 3.9% | 0.00 | 0.00 | 0.00 | 0.00 |
| **Sum** | 0.72 | 0.96 | 20.00 | 2.10 |

*No significant/quantifiable durability differences were identified among competing alternatives. Therefore, future costs were not calculated.

## Human Health by Sorted Flows*




**Note: Lower values are better**

| Category | AJTK-0024 AJTK-0055 | RDO8-0093 | DQJV-0003 | X2PG-0008 |
|---|---|---|---|---|
| Cancer--(w) Arsenic (As3+, As5+ | 829.54 | 234.06 | 19,964.12 | 1,819.14 |
| Cancer--(w) Phenol (C6H5OH) | 922.07 | 206.06 | 17,799.96 | 1,660.53 |
| Cancer--(a) Dioxins (unspecifie | 321.28 | 131.73 | 5,131.22 | 3,990.10 |
| Cancer--(a) Arsenic (As) | 301.48 | 118.21 | 3,938.11 | 206.49 |
| Noncancer--(a) Mercury (Hg) | 381.25 | 7.91 | 1,292.02 | 18.38 |
| All Others | 670.09 | 92.04 | 4,840.61 | 1,702.80 |
| **Sum** | 3,425.71 | 790.02 | 52,966.04 | 9,397.44 |

*Sorted by five topmost flows for worst-scoring product